

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/693,056

Source: IFWO

Date Processed by STIC: 10-16-04

# ***ENTERED***

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/693,056

CRF Edit Date: 10/16/04  
Edited by: PC

☐ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

☐ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

☒ Deleted: ☒ invalid beginning/end-of-file text ; \_\_\_\_\_ page numbers

☐ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

☐ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

☐ Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



IFWO

## RAW SEQUENCE LISTING

DATE: 10/16/2004

PATENT APPLICATION: US/10/693,056

TIME: 10:37:19

Input Set : A:\pto.pg.txt

Output Set: N:\CRF4\10152004\J693056.raw

3 <110> APPLICANT: Kolkman, Joost A.  
 4 Stemmer, Willem P.C.  
 5 Avidia Research Institute  
 7 <120> TITLE OF INVENTION: Combinatorial Libraries of Monomer Domains  
 9 <130> FILE REFERENCE: 022013-000160US  
 11 <140> CURRENT APPLICATION NUMBER: US 10/693,056  
 12 <141> CURRENT FILING DATE: 2003-10-24  
 14 <150> PRIOR APPLICATION NUMBER: US 60/286,823  
 15 <151> PRIOR FILING DATE: 2001-04-26  
 17 <150> PRIOR APPLICATION NUMBER: US 60/337,209  
 18 <151> PRIOR FILING DATE: 2001-11-19  
 20 <150> PRIOR APPLICATION NUMBER: US 60/333,359  
 21 <151> PRIOR FILING DATE: 2001-11-26  
 23 <150> PRIOR APPLICATION NUMBER: US 60/374,107  
 24 <151> PRIOR FILING DATE: 2002-04-18  
 26 <150> PRIOR APPLICATION NUMBER: US 10/133,128  
 27 <151> PRIOR FILING DATE: 2002-04-26  
 29 <150> PRIOR APPLICATION NUMBER: US 10/289,660  
 30 <151> PRIOR FILING DATE: 2002-11-06  
 32 <160> NUMBER OF SEQ ID NOS: 511  
 34 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 36 <210> SEQ ID NO: 1  
 37 <211> LENGTH: 37  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Artificial Sequence  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: human IDD A domain  
 44 <400> SEQUENCE: 1  
 45 Cys Asn Pro Gly Gln Phe Ala Cys Arg Ser Gly Thr Ile Gln Cys Ile  
 46 1 5 10 15  
 47 Pro Leu Pro Trp Gln Cys Asp Gly Trp Ala Thr Cys Glu Asp Glu Ser  
 48 20 25 30  
 49 Asp Glu Ala Asn Cys  
 50 35  
 52 <210> SEQ ID NO: 2  
 53 <211> LENGTH: 35  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)  
 59 related protein 3 (LRP3) A domain  
 61 <400> SEQUENCE: 2  
 62 Cys Gln Ala Asp Glu Phe Arg Cys Asp Asn Gly Lys Cys Leu Pro Gly

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## RAW SEQUENCE LISTING

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63      1              5              10              15
64  Pro Trp Gln Cys Asn Thr Val Asp Glu Cys Gly Asp Gly Ser Asp Glu
65              20              25              30
66  Gly Asn Cys
67              35
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 38
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
76      related protein 3 (LRP3) A domain
78 <400> SEQUENCE: 3
79  Cys Pro Gly Gly Thr Phe Pro Cys Ser Gly Ala Arg Ser Thr Arg Cys
80      1              5              10              15
81  Leu Pro Val Glu Arg Arg Cys Asp Gly Leu Gln Asp Cys Gly Asp Gly
82              20              25              30
83  Ser Asp Glu Ala Gly Cys
84              35
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 46
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
93      related protein 3 (LRP3) A domain
95 <400> SEQUENCE: 4
96  Cys Leu Pro Trp Glu Gln Pro Cys Gly Ser Ser Ser Asp Ser Asp Gly
97      1              5              10              15
98  Gly Ser Leu Gly Asp Gln Gly Cys Phe Ser Glu Pro Gln Arg Cys Asp
99              20              25              30
100 Gly Trp Trp His Cys Ala Ser Gly Arg Asp Glu Gln Gly Cys
101              35              40              45
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 37
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
110      related protein 3 (LRP3) A domain
112 <400> SEQUENCE: 5
113 Cys Pro Pro Asp Gln Tyr Pro Cys Glu Gly Gly Ser Gly Leu Cys Tyr
114      1              5              10              15
115 Thr Pro Ala Asp Arg Cys Asn Asn Gln Lys Ser Cys Pro Asp Gly Ala
116              20              25              30
117 Asp Glu Lys Asn Cys
118              35
120 <210> SEQ ID NO: 6
121 <211> LENGTH: 35

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122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
127     related protein 3 (LRP3) A domain
129 <400> SEQUENCE: 6
130   Cys Gln Pro Gly Thr Phe His Cys Gly Thr Asn Leu Cys Ile Phe Glu
131     1             5             10            15
132   Thr Trp Arg Cys Asp Gly Gln Glu Asp Cys Gln Asp Gly Ser Asp Glu
133     20            25            30
134   His Gly Cys
135     35
137 <210> SEQ ID NO: 7
138 <211> LENGTH: 37
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
144     related protein 5 (LRP5) A domain
146 <400> SEQUENCE: 7
147   Cys Ser Pro Asp Gln Phe Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile
148     1             5             10            15
149   Pro Gly Ala Trp Arg Cys Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser
150     20            25            30
151   Asp Glu Glu Gly Cys
152     35
154 <210> SEQ ID NO: 8
155 <211> LENGTH: 35
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
161     related protein 5 (LRP5) A domain
163 <400> SEQUENCE: 8
164   Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln Cys Val Asp Leu
165     1             5             10            15
166   Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp Arg Ser Asp Glu
167     20            25            30
168   Val Asp Cys
169     35
171 <210> SEQ ID NO: 9
172 <211> LENGTH: 35
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
178     related protein 5 (LRP5) A domain
180 <400> SEQUENCE: 9
181   Cys Leu Pro Asn Gln Phe Arg Cys Ala Ser Gly Gln Cys Val Leu Ile

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182      1              5              10              15
183 Lys Gln Gln Cys Asp Ser Phe Pro Asp Cys Ile Asp Gly Ser Asp Glu
184              20              25              30
185 Leu Met Cys
186      35
188 <210> SEQ ID NO: 10
189 <211> LENGTH: 37
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
195      related protein 6 (LRP6) A domain
197 <400> SEQUENCE: 10
198 Cys Ser Pro Gln Gln Phe Thr Cys Phe Thr Gly Glu Ile Asp Cys Ile
199      1              5              10              15
200 Pro Val Ala Trp Arg Cys Asp Gly Phe Thr Glu Cys Glu Asp His Ser
201              20              25              30
202 Asp Glu Leu Asn Cys
203      35
205 <210> SEQ ID NO: 11
206 <211> LENGTH: 35
207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
212      related protein 6 (LRP6) A domain
214 <400> SEQUENCE: 11
215 Cys Ser Glu Ser Gln Phe Gln Cys Ala Ser Gly Gln Cys Ile Asp Gly
216      1              5              10              15
217 Ala Leu Arg Cys Asn Gly Asp Ala Asn Cys Gln Asp Lys Ser Asp Glu
218              20              25              30
219 Lys Asn Cys
220      35
222 <210> SEQ ID NO: 12
223 <211> LENGTH: 35
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: human low-density lipoprotein receptor (LDLR)
229      related protein 6 (LRP6) A domain
231 <400> SEQUENCE: 12
232 Cys Leu Ile Asp Gln Phe Arg Cys Ala Asn Gly Gln Cys Ile Gly Lys
233      1              5              10              15
234 His Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu
235              20              25              30
236 Leu Asp Cys
237      35
239 <210> SEQ ID NO: 13
240 <211> LENGTH: 35

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241 <212> TYPE: PRT
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: human ST7 A domain
247 <400> SEQUENCE: 13
248 Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly Lys Cys Ile Pro Glu
249 1 5 10 15
250 Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly Asp Ser Ser Asp Glu
251 20 25 30
252 Glu Ile Cys
253 35
255 <210> SEQ ID NO: 14
256 <211> LENGTH: 40
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: human ST7 A domain
263 <400> SEQUENCE: 14
264 Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser Arg Phe Thr Lys Val Tyr
265 1 5 10 15
266 Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp Gly Asn Ile Asp Cys Leu
267 20 25 30
268 Asp Leu Gly Asp Glu Ile Asp Cys
269 35 40
271 <210> SEQ ID NO: 15
272 <211> LENGTH: 36
273 <212> TYPE: PRT
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: human ST7 A domain
279 <400> SEQUENCE: 15
280 Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly Asn Trp Gly Cys Tyr Thr
281 1 5 10 15
282 Glu Gln Gln Arg Cys Asp Gly Tyr Trp His Cys Pro Asn Gly Arg Asp
283 20 25 30
284 Glu Thr Asn Cys
285 35
287 <210> SEQ ID NO: 16
288 <211> LENGTH: 36
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: human ST7 A domain
295 <400> SEQUENCE: 16
296 Cys Gln Lys Glu Glu Phe Pro Cys Ser Arg Asn Gly Val Cys Tyr Pro
297 1 5 10 15
298 Arg Ser Asp Arg Cys Asn Tyr Gln Asn His Cys Pro Asn Gly Ser Asp
299 20 25 30
300 Glu Lys Asn Cys

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**RAW SEQUENCE LISTING ERROR SUMMARY**  
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Input Set : A:\pto.pg.txt

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:219; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,18,19,20,21,22,23  
Seq#:219; Xaa Pos. 24,25,26,27,28,29,30,31,32,34,35,36,37,38,39,40,43,44,45  
Seq#:219; Xaa Pos. 46,48,49,50,51,52,53,56,57,58,59,60,61,62,63  
Seq#:220; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,14,15,16,17,18,19,22,23,24,25,27  
Seq#:220; Xaa Pos. 28,29,30,33,34  
Seq#:221; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,14,15,16,17,18,19,22,23,24,25,27  
Seq#:221; Xaa Pos. 28,30,33,34,35  
Seq#:222; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,14,15,16,17,18,19,22,23,24,25,27  
Seq#:222; Xaa Pos. 28,29,30,33,34,35,36  
Seq#:223; Xaa Pos. 2,3,4,5,6,7,8,10,11,12,13,15,16,17,18,19,20,23,24,25,26  
Seq#:223; Xaa Pos. 28,29,30,31,34,35  
Seq#:224; Xaa Pos. 2,3,4,5,6,7,8,10,11,12,13,15,16,17,18,19,20,23,24,25,26  
Seq#:224; Xaa Pos. 28,30,31,34,35,36  
Seq#:225; Xaa Pos. 2,3,4,5,6,7,8,10,11,12,13,15,16,17,18,19,20,23,24,25,26  
Seq#:225; Xaa Pos. 28,29,30,31,34,35,36  
Seq#:226; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,15,16,17,18,19,20,23,24,25,26  
Seq#:226; Xaa Pos. 28,29,30,31,34,35  
Seq#:227; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,15,16,17,18,19,20,23,24,25,26  
Seq#:227; Xaa Pos. 28,30,31,34,35,36  
Seq#:228; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,15,16,17,18,19,20,23,24,25,26  
Seq#:228; Xaa Pos. 28,29,30,31,34,35,36,37  
Seq#:229; Xaa Pos. 2,3,4,5,6,7,8,10,11,12,13,14,16,17,18,19,20,21,24,25,26  
Seq#:229; Xaa Pos. 27,29,30,31,32,35,36  
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Seq#:231; Xaa Pos. 27,29,30,31,32,35,36,37,38  
Seq#:232; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19,20,21,22,23  
Seq#:232; Xaa Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,42,43,45  
Seq#:232; Xaa Pos. 46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64  
Seq#:232; Xaa Pos. 65,66,67  
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Seq#:233; Xaa Pos. 27,28,29  
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Seq#:237; Xaa Pos. 27,28,29,30,31,32,33  
Seq#:238; Xaa Pos. 2,3,4,5,6,8,9,10,12,13,14,15,16,17,18,19,21,23,24,25,26  
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Seq#:239; Xaa Pos. 2,3,4,5,6,8,9,10,12,13,14,15,16,17,18,19,21,23,24,25,26



## RAW SEQUENCE LISTING ERROR SUMMARY

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Input Set : A:\pto.pg.txt

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Seq#:239; Xaa Pos. 27,28,29,30,31  
Seq#:240; Xaa Pos. 2,3,4,5,6,8,9,10,12,13,14,15,16,17,18,19,21,23,24,25,26  
Seq#:240; Xaa Pos. 27,28,29,30,31,32  
Seq#:241; Xaa Pos. 2,3,4,5,6,8,9,10,12,13,14,15,16,17,18,19,21,23,24,25,26  
Seq#:241; Xaa Pos. 27,28,29,30,31,32,33  
Seq#:242; Xaa Pos. 2,3,4,5,6,8,9,10,12,13,14,15,16,17,18,19,21,23,24,25,26  
Seq#:242; Xaa Pos. 27,28,29,30,31,32,33,34

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Input Set : A:\pto.pg.txt

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L:3633 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3638 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3643 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3648 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3652 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3657 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3662 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3665 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3668 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3671 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219 after pos.:0  
M:341 Repeated in SeqNo=219  
L:3689 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3694 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3700 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3705 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
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L:3806 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
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L:3816 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3821 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:0  
M:341 Repeated in SeqNo=220  
L:3837 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3842 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
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Input Set : A:\pto.pg.txt

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L:3904 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
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L:3968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:0  
M:341 Repeated in SeqNo=221  
L:3983 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:0  
M:341 Repeated in SeqNo=222  
L:4139 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223 after pos.:0  
M:341 Repeated in SeqNo=223  
L:4290 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224 after pos.:0  
M:341 Repeated in SeqNo=224  
L:4439 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225 after pos.:0  
M:341 Repeated in SeqNo=225  
L:4598 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:0  
M:341 Repeated in SeqNo=226  
L:4752 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:227 after pos.:0  
M:341 Repeated in SeqNo=227  
L:4904 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228 after pos.:0  
M:341 Repeated in SeqNo=228  
L:5066 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:229 after pos.:0  
M:341 Repeated in SeqNo=229  
L:5223 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:230 after pos.:0  
M:341 Repeated in SeqNo=230  
L:5378 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:231 after pos.:0  
M:341 Repeated in SeqNo=231  
L:5543 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0  
M:341 Repeated in SeqNo=232  
L:5597 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:0  
M:341 Repeated in SeqNo=233  
L:5734 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0

## VERIFICATION SUMMARY

DATE: 10/16/2004

PATENT APPLICATION: US/10/693,056

TIME: 10:37:20

Input Set : A:\pto.pg.txt

Output Set: N:\CRF4\10152004\J693056.raw

M:341 Repeated in SeqNo=234  
L:5876 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235 after pos.:0  
M:341 Repeated in SeqNo=235  
L:6023 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0  
M:341 Repeated in SeqNo=236  
L:6176 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0  
M:341 Repeated in SeqNo=237  
L:6334 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:0  
M:341 Repeated in SeqNo=238  
L:6476 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:0  
M:341 Repeated in SeqNo=239  
L:6623 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240 after pos.:0  
M:341 Repeated in SeqNo=240  
L:6776 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:6920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0  
M:341 Repeated in SeqNo=241  
L:6934 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:7083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0  
M:341 Repeated in SeqNo=242  
L:7098 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:7234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0  
M:341 Repeated in SeqNo=243  
L:7247 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:7402 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:7562 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:7728 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:7899 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8040 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8186 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8338 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8495 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8658 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8804 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:8956 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:9113 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:9276 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:9444 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:9582 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:9725 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:9874 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10028 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10188 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10334 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

**VERIFICATION SUMMARY**

DATE: 10/16/2004

PATENT APPLICATION: US/10/693,056

TIME: 10:37:20

Input Set : A:\pto.pg.txt

Output Set: N:\CRF4\10152004\J693056.raw

L:10486 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10643 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10806 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10974 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:22733 M:283 W: Missing Blank Line separator, <400> field identifier



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/693,056

DATE: 10/14/2004

TIME: 11:34:32

Input Set : A:\-1-6.app

Output Set: N:\CRF4\10142004\J693056.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Kolkman, Joost A.  
 4 Stemmer, Willem P.C.  
 5 Avidia Research Institute  
 7 <120> TITLE OF INVENTION: Combinatorial Libraries of Monomer Domains  
 9 <130> FILE REFERENCE: 022013-000160US  
 11 <140> CURRENT APPLICATION NUMBER: US 10/693,056  
 12 <141> CURRENT FILING DATE: 2003-10-24  
 14 <150> PRIOR APPLICATION NUMBER: US 60/286,823  
 15 <151> PRIOR FILING DATE: 2001-04-26  
 17 <150> PRIOR APPLICATION NUMBER: US 60/337,209  
 18 <151> PRIOR FILING DATE: 2001-11-19  
 20 <150> PRIOR APPLICATION NUMBER: US 60/333,359  
 21 <151> PRIOR FILING DATE: 2001-11-26  
 23 <150> PRIOR APPLICATION NUMBER: US 60/374,107  
 24 <151> PRIOR FILING DATE: 2002-04-18  
 26 <150> PRIOR APPLICATION NUMBER: US 10/133,128  
 27 <151> PRIOR FILING DATE: 2002-04-26  
 29 <150> PRIOR APPLICATION NUMBER: US 10/289,660  
 30 <151> PRIOR FILING DATE: 2002-11-06  
 32 <160> NUMBER OF SEQ ID NOS: 511  
 34 <170> SOFTWARE: FastSEQ for Windows Version 3.0

## ERRORED SEQUENCES

22720 <210> SEQ ID NO: 479  
 22721 <211> LENGTH: 82  
 22722 <212> TYPE: DNA  
 22723 <213> ORGANISM: Artificial Sequence  
 22725 <220> FEATURE:  
 22726 <223> OTHER INFORMATION: assembly PCR oligonucleotide  
 22728 <400> SEQUENCE: 479

E--> 22728 479 delete

## VERIFICATION SUMMARY

DATE: 10/14/2004

PATENT APPLICATION: US/10/693,056

TIME: 11:34:34

Input Set : A:\-1-6.app

Output Set: N:\CRF4\10142004\J693056.raw

L:3633 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3638 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3643 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3648 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3652 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3657 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3662 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3665 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3668 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3671 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:219  
L:3672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219 after pos.:0  
M:341 Repeated in SeqNo=219  
L:3689 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3694 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3700 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3705 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3710 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3715 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3720 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3725 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3730 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3735 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3739 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3745 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3751 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3757 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3762 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3767 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3772 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3778 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3783 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3788 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3792 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3797 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3801 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3806 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3810 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3816 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3821 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220  
L:3822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:0  
M:341 Repeated in SeqNo=220  
L:3837 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3842 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3848 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3853 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3858 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3863 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3868 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221

## VERIFICATION SUMMARY

DATE: 10/14/2004

PATENT APPLICATION: US/10/693,056

TIME: 11:34:34

Input Set : A:\-1-6.app

Output Set: N:\CRF4\10142004\J693056.raw

L:3873 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3878 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3883 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3888 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3892 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3898 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3904 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3910 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3915 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:221  
L:3968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:0  
M:341 Repeated in SeqNo=221  
L:3983 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:0  
M:341 Repeated in SeqNo=222  
L:4139 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223 after pos.:0  
M:341 Repeated in SeqNo=223  
L:4290 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224 after pos.:0  
M:341 Repeated in SeqNo=224  
L:4439 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225 after pos.:0  
M:341 Repeated in SeqNo=225  
L:4598 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:0  
M:341 Repeated in SeqNo=226  
L:4752 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:4889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:227 after pos.:0  
M:341 Repeated in SeqNo=227  
L:4904 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228 after pos.:0  
M:341 Repeated in SeqNo=228  
L:5066 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:229 after pos.:0  
M:341 Repeated in SeqNo=229  
L:5223 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:230 after pos.:0  
M:341 Repeated in SeqNo=230  
L:5378 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:231 after pos.:0  
M:341 Repeated in SeqNo=231  
L:5543 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0  
M:341 Repeated in SeqNo=232  
L:5597 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:0  
M:341 Repeated in SeqNo=233  
L:5734 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:5863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0



## VERIFICATION SUMMARY

DATE: 10/14/2004

PATENT APPLICATION: US/10/693,056

TIME: 11:34:34

Input Set : A:\-1-6.app

Output Set: N:\CRF4\10142004\J693056.raw

M:341 Repeated in SeqNo=234

L:5876 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235 after pos.:0

M:341 Repeated in SeqNo=235

L:6023 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0

M:341 Repeated in SeqNo=236

L:6176 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0

M:341 Repeated in SeqNo=237

L:6334 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:0

M:341 Repeated in SeqNo=238

L:6476 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:0

M:341 Repeated in SeqNo=239

L:6623 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240 after pos.:0

M:341 Repeated in SeqNo=240

L:6776 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:6920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0

M:341 Repeated in SeqNo=241

L:6934 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:7083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0

M:341 Repeated in SeqNo=242

L:7098 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:7234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0

M:341 Repeated in SeqNo=243

L:7247 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:7402 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:7562 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:7728 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:7899 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8040 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8186 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8338 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8495 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8658 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8804 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:8956 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:9113 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:9276 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:9444 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:9582 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:9725 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:9874 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:10028 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:10188 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

L:10334 M:281 W: Numeric Fields not Ordered, &lt;221&gt; Sort in ascending order!

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/693,056

DATE: 10/14/2004

TIME: 11:34:34

Input Set : A:\-1-6.app

Output Set: N:\CRF4\10142004\J693056.raw

L:10486 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10643 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10806 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:10974 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:22728 M:301 E: (44) No Sequence Data was Shown, SEQ ID:479  
L:22728 M:252 E: No. of Seq. differs, <211> LENGTH:Input:82 Found:0 SEQ:479